

Department of Energy

Washington, DC 20585 OCT 1 8 2002

QA: N/A

M. R. Arenaz, Program Manager National Spent Nuclear Fuel Program U.S. Department of Energy Idaho Operations Office 850 Energy Drive Idaho Falls, ID 83401-1563

ISSUANCE OF DEFICIENCY REPORT(S) (DR) EM(O)-03-D-004 THROUGH EM(O)-03-D-007 RESULTING FROM THE OFFICE OF QUALITY ASSURANCE (OQA) AUDIT EM-ARC-02-10

Enclosed are DRs EM(O)-03-D-004 through EM(O)-03-D-007 generated as a result of OQA Audit EM-ARC-02-10.

Please provide responses to these deficiencies that meet the applicable requirements of Administrative Procedure (AP) 16.1Q, Management of Conditions Adverse to Quality. Send the original of your responses to Deborah G. Opielowski, Navarro Quality Services, P.O. Box 364629, Mail Stop 455, North Las Vegas, Nevada 89036-8629. Initial response to the DRs is due ten working days from the date of this letter. Any extension to the due dates must be requested in accordance with AP-16.1Q.

If you have any questions, please contact either James Blaylock at (702) 794-1420 or John R. Doyle at (702) 794-5021.

OQA:JB-0102

Enclosures:

- 1. DR EM(O)-03-D-004
- 2. DR EM(O)-03-D-005
- 3. DR EM(O)-03-D-006
- 4. DR EM(O)-03-D-007

R. Dennis Brown, Director
Office of Quality Assurance



NMSSON

cc w/encl:

R. A. Milner, DOE/HQ (RW-2), FORS

N. K. Stablein, NRC, Rockville, MD

Robert Latta, NRC, Las Vegas, NV

S. E. Archuleta, NQS, Las Vegas, NV

P. V. Auer, NQS, Las Vegas, NV

J. R. Doyle, NQS, Las Vegas, NV

W. J. Glasser, NQS, Las Vegas, NV

D. G. Opielowski, NQS, Las Vegas, NV

B. M. Terrell, DOE/YMSCO, Las Vegas, NV

OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C RIGINAL RIB IS A RED STAMP

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8. Deficiency Report
Corrective Action Report

No EM(0)-03-D-004

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			Page 1 of QA- QA
DEFICIENCY REPORT	CORRECTIVE ACTIC	N REPOR	
1. Controlling Document (Document ID and Revision or Date) DOE/RW-0333P, Revision 12, Quality Assurance Requ (QARD)		2. Related Rep EM-ARC-02	ort No.: '-
3 Responsible Organization National Spent Nuclear Fuel Program (NSNFP)	4 Discussed With Don Arnold, Bob Blyth	201,1	· · · · · · · · · · · · · · · · · · ·
5 Requirement. a) QARD, Section III.2.6.F requires that "Technical reby an external agency may be used to corroborate the following "	view through publication in e model validation when us	a referred pro ed in conjunc	ofessional journal or review tion with one or more of
b) QARD Supplement I.2.1A requires that software action a planned, traceable and orderly manner utilizing	cquisition, development, mo og a defined software life-cy	odification and cle methodol	d maintenance to proceed ogy."
 c) QARD Supplement III.2.6.A requires in part, "Mode controlled, and documented. (Continued on page 2) 	el development and approa	ches to valida	tion shall be planned,
6. Description of Condition. a) Contrary to the above requirement, NSNFP proceed Section III.B.1.b.4, allows model validation using a corroboration. NSNFP is generating technical report (draft), which indicate in their respective summary	technical review through ports, e.g., DOE/SNF/REP-0	oublication in 71, Revision	open literature" without 1 and DOE/SNF/REP-078
b) Contrary to the requirement, NSNFP Procedure PS does not provide a methodology to implement the i	SO 19-01, Revision 1, <i>Soft</i> urequirement.	ware Control,	1/25/2002, Section II,
c) Contrary to the requirement, NSNFP Procedure PS methodology to implement the requirement.	SO 3.03, Revision 1, 1/25/2	2002, Section	III.B, does not provide a
(Continued on page 2)		٠	
Has work been stopped? ☐ Yes ☒ No 7 Initiator. Patrick V. Auer Printed Name Signature Dat	9 Does a stop work con ☐ Yes ☒ No ☐ N/	A	□B □C □D
10 Recommended Actions	If Yes, Check One	A	
None.			
11. QAR Review. Patrick V. Auer /u/z/ Printed Name Signature Date	12 Response Due Date 10 Work	ing days after iss	suance
13. QAM Issuance Approval: R. Dennis Brown	James Blaylorly		10/17/02
Printed Name 14 Corrective Actions Verified/Closure.	Signature O	oval	Date .
OAR Printed Name Signature Dat	te Printed Name	Signa	ature Date Rev 3/25/0

Submittal	Page 2	of	2

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☑ DR/CAR/QO □ SWO

No: EM(O)-03-D-005

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QA: QA

CONDITION ADVERSE TO QUALITY CONTINUATION PAGE

- 5. Requirement: (Continued)
- d) QARD, Supplement III.2.6.B.6 requires a "discussion of mathematical and numerical methods that are used in the model, including governing equations, formulas, and algorithms, and their scientific and mathematical bases."
- e) QARD, Section 2.2.10.C states, "The review shall be performed by individuals other than the preparer."
- 6. Description of Condition: (Continued)
- d) Contrary to the requirement, NSNFP procedure PSO 3.04, *Engineering Documentation*, Attachment A, does not provide guidance or methodology to require the procedure user to provide the required information.
- e) Contrary to the requirement, NSNFP Procedure PMP-6.01, Revision 6, *Review and Approval of NSNFP Internal Documents*, does not address the requirement. For example, during the review of QAPP-001, Revision 01, the originator was identified on the Document Review Transmittal as a mandatory reviewer.

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* [☐ Corrective Action Report	
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	No FM(0)-03-D-005	

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DEFICIENCY REP		HECTIVE ACTIO			
1 Controlling Document (Document ID and Revision or Date	e) 		2. Related Re	∍port No	٠ . ٠
National Spent Nuclear Fuel Program (NSNFP) I	PMP 7.01, R	evision 0,			• • •
01/15/2002		يد مسرد سند پاند فر	EM-ARC-0)2-10	-
3 Responsible Organization:	4 Dis	cussed With		· a	
NSNFP		Blyth, Don Armour		•	
				•	
5 Requirement PMP 7.01, Quality Program Acceptance for DOE resolution of inconsistencies identified in a desk to for NSNFP QAPD approval indicating the accept	SNF Sites, top review ar	nd if surveillance/aud	its are used	based on satisfac , prepare correspond	ctory ence
	e		-		
6 Description of Condition					
Description of Condition	و م 🕟	The state of the s	, €°;5,Ē	*	-
Contrary to the above requirement, a memorando	um was issu	ed from R. Blythe to !	P Dirkmaat	September 5, 2002	,
conditionally qualifying the INEEL Spent Nuclear	Fuel Program	m to BW-0333P Ad	ditionally th	e memo identifies the	at there
are approximately 15 findings adverse to quality,					ut there
are approximately 10 infairigs adverse to quality,	and provide	s interim galuance i	or corrective	s measures.	
		•			
ا العلية العالم الع			ا معوضا	7 '	
Has work been stopped? ☐ Yes ☒ No	٠. ٠				•
7. Initiator.		9 Does a stop work cond			
Patrick V. Auer Votril ()	1-1-40-18/10	☐ Yes ☒ No ☐ N/A		,	
Printed Name Signature	Date	16.1/ 011-0			
		If Yes, Check One	A	□в □с □с	,
10 Recommended Actions:					•
None.					
a ki u sakharan asa u dan	and the second of				
		~ 1			
11. QAR Review.	. ,	12 Response Due Date			
Patrick V. Auer Performed (1/4, -1)	Olylsout				.,
	Date		ng days after is	suance.	,
Printed Name Signature 13 QAM Issuance Approval	Date : 1	,			
· · · · · · · · · · · · · · · · · · ·	Z Do S	0:0	•		;
R. Dennis Brown	o Blanz	lost for	-	10/17	102
Printed Name	Signa	ture	•		Date
14 Corrective Actions Verified/Closure	1	15 QAM Closure Approv	al		
V 1 NF 4-76.4- N V MM N	* * **				
87,	-14 No.			* '	
QAR Printed Name Signature	Date	Printed Name	Sign	ature	Date
Cemplate AP161-1	4			I	Rev 3/25/0:

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8.	☑ Deficiency Report☐ Corrective Action Report
	No EM(0)-03-D-006

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DEFINITION DEPORT	2/00775071/7	QA: QA
	CORRECTIVE ACTION REPO	
 Controlling Document (Document ID and Revision or Date) DOE/RW-0333P, Revision 12, Quality Assurance Req 	uirements and Description (QARD)	2. Related Report No.: EM-ARC-02-10
3. Responsible Organization: National Spent Nuclear Fuel Program (NSNFP)	4. Discussed With: Neal MacKay, Chris Dahl, Rob Batte	en
5 Requirement	· · · · · · · · · · · · · · · · · · ·	
QARD, Section V.1 states in part, "This supplement apeither exist or are used in an electronic format. This in as design output, or developed as an output of scientif	cludes electronic formatted data used	in design input, developed
6 Description of Condition:		
INEEL personnel using the Goth_SNF Software Progra a PC and vice versa. The NSNFP does not have proc the requirements of Supplement V of the QARD.	am routinely transfer electronic files fro ess controls in the form of an impleme	m a computer workstation to nting procedure to address
Has work been stopped? ☐ Yes ☒ No		
7. Initiator: Samuel E. Archuleta	9 Does a stop work condition exist? ☐ Yes ☒ No ☐ N/A	
Printed Name Signature Date	e If Yes, Check One A	□B □C □D
Nave		
11 QAR Review	12 Response Due Date	
Printed Name Signature Date	10_ Working days after i	ssuance
3 QAM Issuance Approval	7000	
R. Dennis Brown 20	Signature Signature	10/17/02 Date
4 Corrective Actions Verified/Closure:	15. QAM Closure Approval	Date
DAR Printed Name Signature Date implate AP161-1	Printed Name Sig	nature Date Rev 3/25/02

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B DEFICIENCY REPORT
CORRECTIVE ACTION
REPORT
NO. EM(0)-03-D-007
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	QA: QA
DEFICIENCY REPORT/CORI	RECTIVE ACTION REPORT
Controlling Document (Document ID and Revision or Date)	2 Related Report No:
Quality Assurance Staff Procedure (QAS) 16 02, Revision 6, Correct	tive Action EM-ARC-02-10
3 Responsible Organization	4 Discussed With
National Spent Nuclear Fuel Program	Robert Blyth
5 Requirement: QAS 16 02, paragraph III, E 2, states in part. "For significant conditisteps "Submit the root cause analysis documentation with the C	
6 Description of Condition: Contrary to the above requirement, no root cause analysis was perforesponse to Corrective Action Report 02-NSNF-AU-001-CAR-001.	ormed and as a result documentation was not submitted with the
Has work been stopped? ☐ Yes ⊠ No	
7 Initiator John R Doyle	9 Does a stop work condition exist? ☐ Yes ☑ No ☐ N/A If Yes, Check One ☐ A ☐ B ☐ C ☐ D
10 Recommended Actions	
None	
John R Doyle Signature Date	12. Response Due Date 10 Working Days after Issuance
13 QAM Issuance Approval Printed Name R. Dennis Brown Signature	James Blughalfo Date 10/17/02
14 Corrective Actions Verified/Closure	15. QAM Closure Approval
QAR Printed Name Signature Date	Printed Name Signature Date

AP-16 1Q 1

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Rev 03/25/2002



Department of Energy

Washington, DC 20585

OCT 18 2002

QA: QA

K. G. Hess Bechtel SAIC Company, LLC 1180 Town Center Drive, M/S 423 Las Vegas, NV 89144

ISSUANCE OF DEFICIENCY REPORT (DR) BSC(O)-02-D-188 RESULTING FROM AN OBSERVATION BY WILLIAM J. BOYLE

Enclosed is DR BSC(O)-02-D-188 generated as a result of an observation.

Please provide a response to this deficiency that meets the applicable requirements of Administrative Procedure (AP) 16.1Q, Management of Conditions Adverse to Quality. Send the original of your response to Deborah G. Opielowski, Navarro Quality Services, P.O. Box 364629, Mail Stop 455, North Las Vegas, Nevada 89036-8629. Initial response to the DR is due ten working days from the date of this letter. Any extensions to this due date must be requested in accordance with AP-16.1Q.

If you have any questions, please contact either James Blaylock at (702) 794-1420 or William J. Glasser at (702) 794-5014.

OQA:JB-0100

Enclosure: DR BSC(O)-02-D-188 R. Dennis Brown Director
Office of Quality Assurance

cc w/encl:

N. K. Stablein, NRC, Rockville, MD

Robert Latta, NRC, Las Vegas, NV

G. K. Beall, BSC, Las Vegas, NV

D. T. Krisha, BSC, Las Vegas, NV

N. H. Williams, BSC, Las Vegas, NV

W. J. Glasser, NQS, Las Vegas, NV

D. G. Opielowski, NQS, Las Vegas, NV

J. R. Dyer, DOE/YMSCO, Las Vegas, NV

D. G. Horton, DOE/YMSCO, Las Vegas, NV

W. J. Boyle, DOE/YMSCO, Las Vegas, NV

C. E. Hampton, DOE/YMSCO, Las Vegas, NV

J. M. Replogle, DOE/YMSCO, Las Vegas, NV

B. M. Terrell, DOE/YMSCO, Las Vegas, NV

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8. DEFICIENCY REPORT
CORRECTIVE ACTION REPORT
NO. BSC(0)-02-D-188
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· ;				QA: QA
DEFICIENCY R	EPORT/CO	RRECTIVE ACTION	ON REPOR	RT .
1. Controlling Document: (Document ID and Revi	sion or Date)	· · · · · · · · · · · · · · · · · · ·	2. Related F	Report No.:
AP-7.5Q Revision 1 ICN0, effective date 7/1/02			N/A	
3. Responsible Organization:		scussed With:		
BSC General Manager		is Sorensen, Don Nitti,) (en <i>Sept.)</i> Rob Howard	
5 Requirement: The procedure requires the following: 5.2 DELIV following information: 8) A listing of open Condi the deliverable and/or associated work, or a stater work. In addition, the procedure requires the following of the procedure requires the proc	ition/Issue Identi ment that there an	fication and Reporting/ e no open CIRS items	Resolution Systemated to the control	stem (CIRS) items related to eleliverable and/or associated
In addition, the procedure requires the following of the Requester and inform the Requester of the rea	of Review Coord	on for not processing the	eturn any incor ne deliverable	nplete deliverable packages to package.
6. Description of Condition: In June, two non-Q deliverables, ESS460000D an letters that did not have the required statement about letter. I did not file a CIRS item and I am not away	out CIRS items o	ited in box 5 above. A	rganization car t OLRC's requ	me to OLRC with transmittal est, BSC sent a corrected
In August, another non-Q deliverable, SP8110000 have the required statement about CIRS items. As procedural noncompliance with respect to the transport of the	t OLRC's reques	LA Project came to OI t, BSC sent a corrected	LRC with a tra letter and filed	nsmittal letter that also did not I a CIRS item about the
In September, a Q deliverable, PA0112900D, this the required statement about CIRS items. OLRC corrected letter and filing a CIRS item about the p	And the PA Proj	ect have discussed the	issue, and BSC	is in process of sending a
(continued)				
University to Div Div				
Has work been stopped? ☐ Yes ☑ No 7. Initiator.		10.0		
WILLIAM BOYLE William Boy	le abub	│9. Does a stop work c │	ondition exist? N/A	
Printed Name Signature	Date	If Yes, Check One:		B C D
10. Recommended Actions:				
NONE				
		_		
		•		,
11. QA Review:		12. Response Due Da	ate:	
William J. 61989 Whish Plan Printed Name Signature	/0/8/02 Date	10	Working Days	after Issuance
13. QAM Issuance Approval: R. Den n`is Browk Printed Name Rom B. Murthy	Signatur	e Jamo Blan	lost for	Date 10/17/02
14. Corrective Actions Verified/Closure	0.9.10101	15. QAM Closure App	roval.	·
QAR Printed Name Signature	Date	Printed Name	Signature	Date

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NO BSC(0)-02-D-188 PAGE 2 OF

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CONDITION ADVERSE TO QUALITY CONTINUATION PAGE

6. Description of condition (continued)

In addition to these three separate organizations being in noncompliance, on at least the four occasions the Document Control group of the CIO was in noncompliance with the requirement cited above that it return any incomplete package.

This is filed as a DR and not a Quality Observation because the noncompliance is not isolated, a requirement to be a QO. In addition, this happened on 4 consecutive deliverables. It is quite possible it has happened on other deliverables, including Q ones. Whether or not this happened with other deliverables can only be determined by examination of other deliverables.

The Responsible Organization was identified as the BSC General Manager because that is the organization that has responsibility for all four of the organizations, Document Control, ES&H, LA Project, and PA Project that were in noncompliance.